

SECTION 06410
CUSTOM CASEWORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Custom fabricated cabinet units
- B. Countertops
- C. Miscellaneous wood shelving

1.2 SUBMITTALS

- A. Submit the following in accordance with the requirements of Section 01300.
 - 1. Catalog data for hardware and specialty items.
 - 2. Shop drawings of all items of architectural woodwork.

1.3 QUALITY ASSURANCE

- A. Perform work to "Custom" quality in accordance with "Quality Standards" of the Architectural Woodwork Institute (AWI).

1.4 DELIVERY, STORAGE AND HANDLING

- A. Protect woodwork during transit, delivery, storage and handling to prevent damage, soiling and deterioration.
- B. Do not deliver woodwork until painting, wet work and similar operations which could damage woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas meeting requirements for installation areas.

1.5 PROJECT CONDITIONS

- A. Do not install woodwork until required temperature and relative humidity have been stabilized, and will be maintained in installation areas in accordance with AWI instructions.

PART 2 PRODUCTS

2.1 WOOD MATERIALS

If cabinetwork is to have a painted finish, softwood is the logical material. Hardwood is the best for natural finishes.

- A. Softwood lumber: PS 20; graded in accordance with AWI Custom; average moisture content of 8 percent, hem fir or pine.

or

- A. Hardwood lumber: NHLA; graded in accordance with AWI Custom; average moisture content of 8 percent; red oak.

2.2 PANEL MATERIALS

- A. Softwood plywood: PS 1; graded in accordance with AWI, particleboard core material.
- B. Hardwood plywood: PS 51; graded in accordance with AWI, particleboard core material.
- C. Wood particleboard: AWI standard, composed of medium density wood chips, made with water resistant adhesive; of grade to suit application; sanded faces.
- D. Hardboard; Pressed wood fiber with resin binder, smooth 1 side.

2.3 PLASTIC LAMINATE MATERIALS

- A. Plastic laminate: NEMA GP50, 0.050 inch for horizontal surfaces; NEMA FR32, 0.32 inch for vertical surfaces; matte finish faces, manufactured by WilsonArt.
- B. Laminate backing sheet: NEMA LD-3 BK20, backing grade, 0.020 inch, undecorated plastic sheet, manufactured by WilsonArt.
- C. Use adhesives recommended by plastic laminate manufacturer.

2.4 ACCESSORIES

- A. Plastic laminate self edge trim on plastic laminate faced panels.
- B. Matching wood veneer tape on hardwood faced panels.
- C. Plastic edge trim; extruded flat shape, smooth surface finish, self locking serrated tongue, of width to match panel, color as selected, on painted softwood panels.
- D. Clear, heat strengthened, 1/4 inch safety glass for wall cabinet doors.
- E. Fasteners of size and type to suit application.
- F. Concealed joint fasteners of threaded steel.

2.5 HARDWARE

- A. Shelf standards: Formed steel channels, cut for support brackets at 1 inch centers, satin chrome finish.
- B. Support brackets: Formed steel brackets. formed to fit slots in standards, for nominal 12 inch shelves, satin chrome finish.
- C. Drawer and door pulls: Recessed, satin chrome steel or plastic, as appropriate.
- [D. Cabinet locks: Keyed cylinder, 2 keys per lock, steel with polished chrome finish].
- E. Door catches: Magnetic type.
- F. Drawer slides: Galvanized steel construction, ball bearings separating tracks, full extension type.
- G. Hinges: Knuckle disappearing type.

2.6 FABRICATION

- A. Comply with requirements of referenced quality standard for moisture content of lumber at time of fabrication, and for humidity conditions in the installation area.

- B. Before fabricating woodwork required to be fitted to other construction, obtain field measurements and verify dimensions and shop drawing details as required for accurate fit.
- C. Fabricate woodwork to dimensions, profiles and details indicated, with openings and mortises precut, where possible, to receive hardware and other items and other work. Locate openings accurately, using templates or roughing-in diagrams for proper size and shape. Smooth edges of cutoffs and, where located in countertops and similar exposures, seal edges of cutouts with a water resistant coating.
- D. Ease edges to 1/16 inch radius at corners of cabinets and edges of solid wood (lumber) members less than 1 inch in nominal thickness, 1/8 inch radius for edges of rails and similar members over 1 inch in nominal thickness.
- E. Finish shelves, doors, and exposed edges with appropriate edging, wood veneer tape, plastic laminate or plastic extrusion. Use one piece for full length only.
- F. Door and drawer fronts: 3/4 inch thick, overlay style.
- G. Apply plastic laminate finish in full, uninterrupted sheets, consistent with manufactured sizes. Fit corners and joints hairline, secure with concealed fasteners.
- H. Apply laminate backing sheet to reverse sides of plastic laminate faced surfaces.
- I. Complete fabrication, assembly, finishing, hardware installation, and other work before shipment to project site to maximum extent possible. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming and fitting.
- J. Shop assemble casework for delivery to site in units easily handled and to permit passage through building openings.

2.7 FINISHES

- A. Painted finish: One coat of primer, 2 coats of semi-gloss latex acrylic enamel conforming to FS TT-E-508.

or

- A. Natural finish: Sanding sealer, stain and 2 coats of satin polyurethane conforming to FS TT-C-1162C.

PART 3 EXECUTION

3.1 INSPECTION

- A. Verify presence and accuracy of backing and support framing.
- B. Verify locations and sizes of utility rough-ins associated with casework.

3.2 INSTALLATION

- A. Set and secure casework in place, rigid, plumb and level.
- B. Use fixture attachments in concealed locations for wall mounted components.
- C. Use concealed joint fasteners to align and secure adjoining cabinet units and countertops.

D. Carefully scribe and cut casework abutting other Work, with gaps of 1/32 inch maximum. Do not use additional overlay trim for this purpose.

E. Secure cabinets to floor using appropriate angles and fasteners.

3.3 ADJUSTING

A. Adjust moving or operating parts to function smoothly and correctly.

3.4 CLEANING

A. Clean casework, counters, shelves, hardware, fittings and fixtures.

END OF SECTION